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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Weifeng Zhang : Date: August 14, 2000
Serial No. : Group Art Unit:
Filed: : Examiner:
For: Computer Systems and Methods Employing : Batch No.:
Thin-Client Internet Launching Mechanisms

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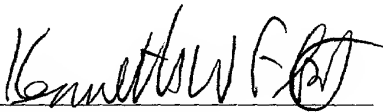
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**UTILITY
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(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney docket No. 00-1007

Total Pages 21

First Named Inventor or Application Identifier

Weifeng Zhang

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APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

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1. ☒ Fee Transmittal Form
(Submit an original, and a duplicate for fee processing)
2. ☒ Specification [Total Pages 10]
(preferred arrangement set forth below)
- Descriptive title of the Invention
- Cross Reference to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure
3. ☒ Drawing(s) (35 USC 113) [Total Sheets 2]
4. Oath of Declaration [Total Pages 2]
a. ☐ Newly executed (original copy)
b. ☐ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 17 completed)
[Note Box 5 below]
i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting
inventor(s) named in the prior application,
see 37 CFR 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference (useable if Box 4b is checked)
The entire disclosure of the prior application, from which a
copy of the oath of declaration is supplied under Box 4b,
is considered as being part of the disclosure of the
accompanying application and is hereby incorporated
by reference therein.

6. ☐ Microfiche Computer Program (Appendix)
7. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
a. ☐ Computer Readable Copy
b. ☐ Paper Copy (identical to computer copy)
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ACCOMPANYING APPLICATION PARTS

8. ☒ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(b) Statement
(when there is an assignee) ☐ Power of Attorney
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure
Statement (IDS)/PTO-1448 ☐ Copies of IDS
Citations
12. ☐ Preliminary Amendment
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August 14, 2000

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Transmitted herewith for filing is the patent application, including two (2) sheet(s) of drawing,
of inventor(s): Weifeng Zhang
for: Computer Systems and Methods Employing Thin-Client Internet Launching Mechanisms

Applicant is a small entity ☐; large entity ☒

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Multiple Dependent Claims	0 times	\$ 260.00 =	\$ 0.00
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A cheque in the amount of \$ **730.00** is enclosed with this Application Transmittal Letter to cover the filing fees. This form is submitted in duplicate.

Respectfully submitted

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PATENT
PD-00-1007

**COMPUTER SYSTEMS AND METHODS EMPLOYING
THIN-CLIENT INTERNET LAUNCHING MECHANISMS**

Weifeng Zhang

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COMPUTER SYSTEMS AND METHODS EMPLOYING THIN-CLIENT INTERNET LAUNCHING MECHANISMS

BACKGROUND

The present invention relates generally to computer systems and methods, and more particularly, to a compact Internet agent that is part of a basic input output system (BIOS) of a computer system that permits platform identification to provide service and technical support to users.

Personal computers have a basic input output system (BIOS) which is a firmware program that is typically stored in a nonvolatile random access memory (or flash memory). The BIOS brings up the computer system when it is turned on. Many Windows™-based personal computers use a BIOS developed by the assignee of the present invention, know as PhoenixBIOS.

It has been found that it is often desirable to upgrade software or firmware or provide customized services to users. In the past, in order to upgrade or secure customized services, users have had to launch a web browser, select or input the desired web page address (such as the PhoenixNet web page, and interactively choose services or downloads that might be desirable. This tends to be time consuming, and also delays the upgrade or customization based upon the user.

It would be desirable to have the ability to automatically upgrade or customize software or firmware using the Internet. It would be desirable to be able to provide this upgrading and customization from a central server using a small amount of firmware on a user computer in a fast and nonintrusive manner

It is therefore an objective of the present invention to provide for a compact (thin) Internet agent that is part of a basic input output system (BIOS) of a computer

system that permits platform identification in order to provide quality service and technical support to users.

SUMMARY OF THE INVENTION

5 To accomplish the above and other objectives, the present invention provides for a variety of improvements to computer systems and methods. The present invention includes a compact Internet agent (referred to as iAgent) and corresponding methods. The Internet agent is part of a basic input output system (BIOS) of user computer systems that permits platform identification to provide service and technical support to users. The operating system of the respective user computer systems operate to set up a registry, such as a registry generated when using a Windows™ operating system.

15 The Internet agent is preferably built into (part of) the system BIOS (such as the well-known PhoenixBIOS developed by the assignee of the present invention) and is used to "clientify" the platform during system BIOS boot. This allows the assignee of the present invention, for example, through a web page on its PhoenixNet server computer and the Internet, to provide service and technical support to users from a central server. The user computer system also contains a web browser that is used to contact the central server when it is launched.

20 The BIOS launches when a user computer system is turned on. The BIOS in turn, and at the appropriate time, launches the Internet agent. The Internet agent adds a predetermined number (preferably two) special MIME (Multipurpose Internet Mail Extension) headers to a registry. The default browser web page is changed to point to the web page on the central server.

25 The MIME headers are special in that they are inactive and useless until a user launches the web browser and connects to the web page. The central server analyzes the HTTP (Hyper Text Transfer Protocol) request upon connection. If the MIME headers are identified, the central server knows it is interacting with a PhoenixNet customer whose computer system operates using the PhoenixBIOS. The central server optionally asks the user for registration, and pushes service content to the user computer system. After the connection is established, any other related web activity can ensue.

BRIEF DESCRIPTION OF THE DRAWINGS

35 The various features and advantages of the present invention may be more readily understood with reference to the following detailed description taken in

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conjunction with the accompanying drawing, wherein like reference numerals designate like structural elements, and in which:

Fig. 1 illustrates an exemplary system in which the present invention is used; and

5 Fig. 2 is a flow diagram that illustrates an exemplary Internet agent and corresponding method in accordance with the principles of the present invention.

DETAILED DESCRIPTION

Referring to the drawing figures, Fig. 1 illustrates an exemplary system 10 in which the present invention may be used. The system 10 comprises a central server 11 which is coupled to the Internet 12 along with a plurality of user computer systems 13 which are also coupled to the Internet 12. The central server 11 may be a PhoenixNet central server 11 operated by the assignee of the present invention. It is to be understood that interconnection of the central server 11 and user computer systems 13 may be readily achieved in any manner that permits transfer of Internet mail-type messages, and may include intranets, wireless and other communication media.

Each of the user computer systems 13 comprises a system BIOS (basic input output system) 14, such as the well-known PhoenixBIOS developed by the assignee of the present invention. Each user computer system 13 comprises an Internet agent (iAgent) 15 implemented in accordance with the principles of the present invention. The Internet agent 15 is preferably built into (part of) the system BIOS 14, such as the well-known PhoenixBIOS developed by the assignee of the present invention.

Each user computer system 13 comprises an operating system 16 that is launched by the system BIOS 15. The operating system 16 of the user computer system 13 operates to set up a registry 17, such as a Windows-type registry 17, for example, when launched. Each user computer system 13 comprises a web browser 18 that is used in the context of the present invention to contact the central server 11 when it is launched.

The Internet agent 15 is used to "clientify" the user computer system 13 during system BIOS boot in the manner described in detail below. The Internet agent 15 adds a predetermined number (preferably two) special MIME (Multipurpose Internet Mail Extension) headers 19 to the registry 17. Examples of the MIME headers 19 that may preferably be employed with the Internet agent 15 are Content-Type: text/PTL and User-Agent: PTL/1.0.

35 The Internet agent 15 changes the default browser web page to point to the (PhoenixNet) web page on the central server 11. Once the Internet agent 15 "clientifies" the user computer system 13 during booting of the system BIOS 14, the

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server computer 11 and the Internet 12 are used to provide service and technical support to users.

In operation, the BIOS 14 launches when the user computer system 13 is turned on. The BIOS 14 in turn, and at the appropriate time, launches the Internet agent 15.

- 5 The Internet agent 15 adds the MIME headers 19 to the Windows registry 17. The default web page of the web browser 18 is changed to point to the web page on the server computer 11.

- 10 The MIME headers 19 added in the registry 17 may be, but are not limited to, "User-Agent", or "Content-Type". The MIME headers 19 are special in that they are inactive and useless until a user launches his or her web browser 18 and connects to the PhoenixNet web page on the server computer 11.

- 15 The PhoenixNet central server 11 analyzes the HTTP (Hyper Text Transfer Protocol) request. If the MIME headers 19 are identified, the central server 11 knows it is interacting with a PhoenixNet customer whose computer system 13 operates using PhoenixBIOS. The central server 11 optionally asks the user for registration, and pushes service content to the user computer system 13. After the connection is established, any other PhoenixNet related web activity can ensue.

- 20 The Internet agent 15 is preferably treated as a regular feature of the system BIOS 14, and is enabled or disabled by user in the BIOS power on self test (POST) setup menu of the system BIOS 14. The Internet agent 15 does not require a user's identification and thus there is no personal privacy violation, and is fast and easy to implement. Since the Internet agent 15 does not detect or sniff a user's network connection, there is no slow-down during system boot. When the user invokes the web browser 18, it fetches the MIME headers 19 from the registry 17, which makes the connection to the PhoenixNet web page on the central server 11 automatic and seamless.

- 30 Because of the simplified functionality, the Internet agent 15 is very thin (compact) and flexible. This is particularly desirable, which allow for a minimum amount of precious read only memory (ROM) space to be used for the BIOS 14. Also because of this, the code used to implement the Internet agent 15 may be made universal. There is no customization required for deployment of the Internet agent 15. There is no ROM upgrade required even if the services and features delivered by the PhoenixNet web page are changed. The Internet agent 15 does not require knowledge about user's web browser 18.

- 35 Advantages of the present invention are that Internet agent 15 is compact and efficient and requires limited ROM space. Connection and clientification using the Internet agent 15 is fast and nonintrusive. The Internet agent 15 is easy to implement

and fast to deploy. The Internet agent 15 makes customized services centralized in the a central server 11, such as, internationalization, multiple language support, time zone, and country code. It is easy to add or change features and services.

Fig. 2 is a flow diagram that illustrates an exemplary method 30 in accordance with the principles of the present invention that permits identification of user computer systems 11 to provide service and technical support. The method 30 comprises the following steps.

One or more user computer systems 13 are interconnected 31 to a server computer 11, such as by way of the Internet 12 or by way of an intermediate intranet and server. Each user computer system 13 is loaded 32 with a system BIOS 14 that preferably contains an Internet agent 15, an operating system 16 that is launched by the system BIOS 15 and that sets up a registry 17, and a web browser 18. The server computer 11 is loaded 33 with web page software that permits communication with the web browsers 18 of the user computer systems 13.

A user computer system 13 is turned on 34. The BIOS 14 is launched 35, which in turn, launches 36 the Internet agent 15. The Internet agent 15 operates to add 37 a predetermined number of MIME headers 19 to the registry 17 that identify the user computer system 13. The Internet agent 15 also operates to change 38 a default web page of the web browser 18 to point to a predetermined web page on the server computer 11.

A user launches 41 the web browser 18 to connect to the web page on the server computer 11. The MIME headers 19 are transferred 42 in a HTTP (Hyper Text Transfer Protocol) request to the server computer 11. The central server 11 analyzes 43 the HTTP request to determine if the MIME headers 19 were transferred. If the MIME headers 19 are identified, the central server 11 optionally prompts 44 or asks 45 the user for registration, and pushes 45 service content to the user computer system 13.

Thus, a compact Internet agent that is part of a basic input output system (BIOS) and method that permits platform identification to provide service and technical support to users have been disclosed. It is to be understood that the above-described embodiments are merely illustrative of some of the many specific embodiments that represent applications of the principles of the present invention. Clearly, numerous and other arrangements can be readily devised by those skilled in the art without departing from the scope of the invention.

CLAIMS

What is claimed is:

1. A method that permits identification of user computer systems 13 by a server computer connected thereto to deliver service and technical support to users, comprising the steps of:

- interconnecting one or more user computer systems to a server computer;
- 5 loading each user computer system with a system BIOS that comprises an Internet agent, an operating system that is launched by the system BIOS and that sets up a registry, and a web browser;
- loading the server computer with web page software that permits communication with the web browsers of the user computer systems;
- 10 turning on a user computer system;
- launching the BIOS;
- launching the Internet agent;
- adding a predetermined number of Multipurpose Internet Mail Extension (MIME) headers to the registry that identify the user computer system;
- 15 changing a default web page of the web browser to point to a web page on the server computer;
- launching the web browser;
- connecting to the web page on the server computer;
- transferring the MIME headers in a Hyper Text Transfer Protocol (HTTP) request to the server computer;
- 20 analyzing the HTTP request at the central server to determine if the MIME headers were transferred; and
- if the MIME headers are identified, pushing service content from the server computer to the user computer.

2. The method recited in Claim 1 wherein the step of interconnecting one or more user computers to the server computer comprises interconnecting the one or more user computers to the server computer by way of the Internet.

3. The method recited in Claim 1 further comprising the step of prompting a user for registration after the Multipurpose Internet Mail Extension (MIME) headers are identified.

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4. The method recited in Claim 1 wherein the MIME headers comprise Content-Type: text/PTL and User-Agent: PTL/1.0.

5. A computer system comprising:
 one or more user computer systems that each comprise a system BIOS and an operating system that is launched by the system BIOS that sets up a registry;
 a central server coupled to the one or more user computer systems;
 5 a web browser disposed on each of the user computer systems;
 an Internet agent that is part of the BIOS of each user computer system that functions to add a predetermined number of Multipurpose Internet Mail Extension (MIME) headers to the registry to identify the respective user computer system, and that changes a default web page of the web browser of the respective user computer
 10 system to point to a web page on the server computer; and
 web page software disposed on the central server that communicates with the web browsers of the respective user computer systems and that analyzes Hyper Text Transfer Protocol (HTTP) requests transferred from the web browsers of the respective user computer systems to determine if MIME headers were transferred therewith, and
 15 that pushes service content from the server computer to the user computer if the MIME headers are present.

6. The computer system recited in Claim 5 wherein the MIME headers 9 comprise Content-Type: text/PTL and User-Agent: PTL/1.0.

7. The computer system recited in Claim 5 wherein the wherein the one or more user computers and the server computer are interconnected by way of the Internet.

8. The computer system 10 recited in Claim 5 wherein the web page software also prompts a user for registration after the Multipurpose Internet Mail Extension (MIME) headers are identified.

9. In a computer system comprising one or more user computer systems that each have a system BIOS and an operating system that is launched by the system BIOS and sets up a registry, a central server coupled to the user computer systems, a web browser disposed on each of the user computer systems, wherein the improvement
 5 comprising:
 an Internet agent that is part of the BIOS of each user computer system that functions to add a predetermined number of Multipurpose Internet Mail Extension

(MIME) headers to the registry to identify the respective user computer system, and that changes 38 a default web page of the web browser of the respective user computer system to point to a web page on the server computer; and

web page software disposed on the central server that communicates with the web browsers of the respective user computer systems and that analyzes Hyper Text Transfer Protocol (HTTP) requests transferred from the web browsers of the respective user computer systems to determine if MIME headers were transferred therewith, and that pushes service content from the server computer to the user computer if the MIME headers are present.

10. The improvement recited in Claim 9 wherein the MIME headers comprise Content-Type: text/PTL and User-Agent: PTL/1.0.

11. The improvement recited in Claim 9 wherein the wherein the one or more user computers and the server computer are interconnected by way of the Internet.

12. The improvement recited in Claim 9 wherein the web page software prompts a user for registration after the Multipurpose Internet Mail Extension (MIME) headers are identified.

COMPUTER SYSTEMS AND METHODS EMPLOYING THIN-CLIENT INTERNET LAUNCHING MECHANISMS

ABSTRACT

Improvements to computer systems and methods that permit platform identification to provide service and technical support to users. The present invention employs a compact Internet agent that is preferably part of a basic input output system (BIOS) of user computer systems. An operating system of the user computer systems
5 operate to set up a registry. Each user computer system contains a web browser that is used to contact the central server by way of the Internet, for example when it is launched. The Internet agent is used to identify the user computer system during system BIOS boot. The BIOS launches when a user computer system is turned on, which launches the Internet agent. The Internet agent adds a predetermined number
10 (preferably two) MIME (Multipurpose Internet Mail Extension) headers to a registry. The default browser web page is changed to point to a web page on the central server. The MIME headers are inactive and useless until the web browser is launched and the user computer system connects to the web page. The central server analyzes the HTTP (Hyper Text Transfer Protocol) request upon connection. If the MIME headers are
15 identified, the server identifies the user computer system, optionally asks the user for registration, and pushes service content to the user computer system.

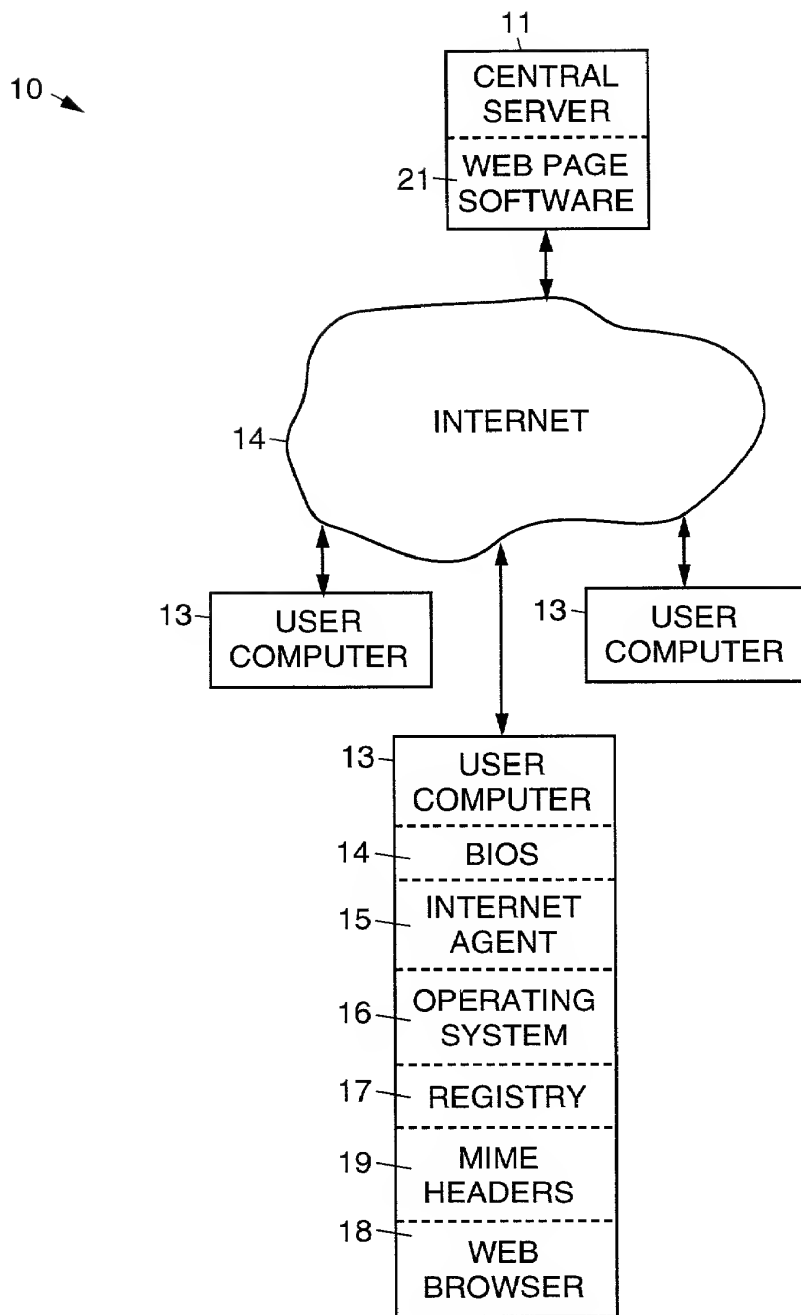
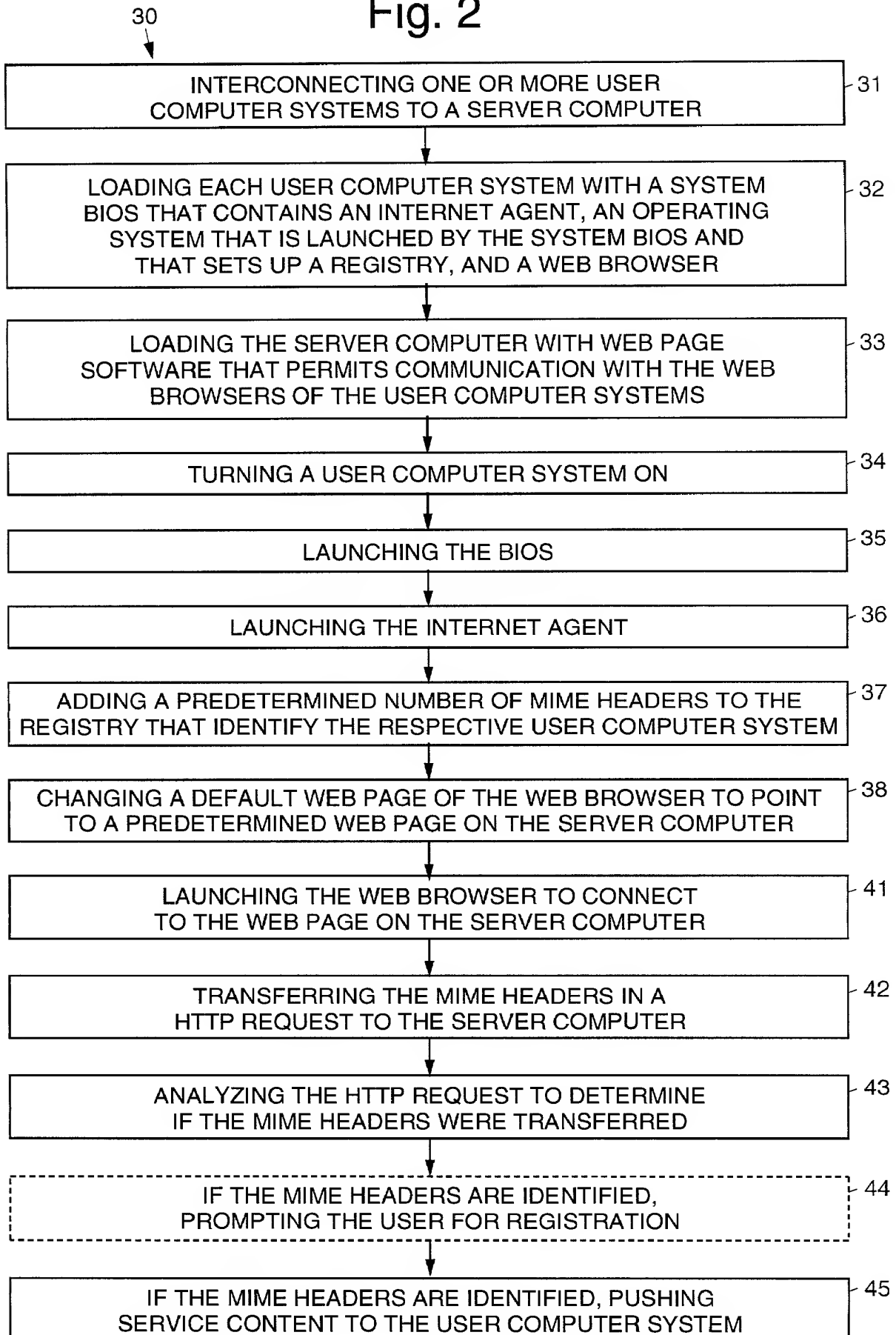


Fig. 1

Fig. 2



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PD- 00-1007

- ☒ Original
☐ Continuation
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☐ Continuation-in-part
☐ Supplemental
☐ PCT
☐ Design

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **Computer Systems and Methods Employing Thin-Client Internet Launching Mechanisms**

the specification of which

- (check one)
- ☒ is attached hereto
- ☐ was filed on _____ as _____
Application Serial No. _____ and (a) [other than supplemental] was amended
on or (b) [supplemental] with amendments through _____

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of the application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Priority Claimed

☐ Yes ☐ No

Number

Country

Day/Month/Year filed

I hereby claim the benefit under Title 35, United States Code, §120 of any United States applications(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.

Filing Date

Status
(patented, pending, abandoned)

DECLARATION

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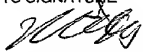
I hereby appoint the following attorneys, or agent and attorneys, to prosecute the application and to transact all business in the Patent and Trademark Office in connected therewith:

Kenneth W. Float, Registration No. 29,233

Address all correspondence to Claudia Cameron, Legal Assistant, Phoenix Technologies Ltd., 411 East Plumeria Drive, San Jose, CA 95134. Please address telephone calls to Claudia Cameron at (408) 570-1038

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false

United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF SOLE OR FIRST JOINT INVENTOR Weifeng Zhang	INVENTOR'S SIGNATURE 	DATE 8/11/00
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FULL NAME OF JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE	CITIZENSHIP	
POST OFFICE ADDRESS		
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